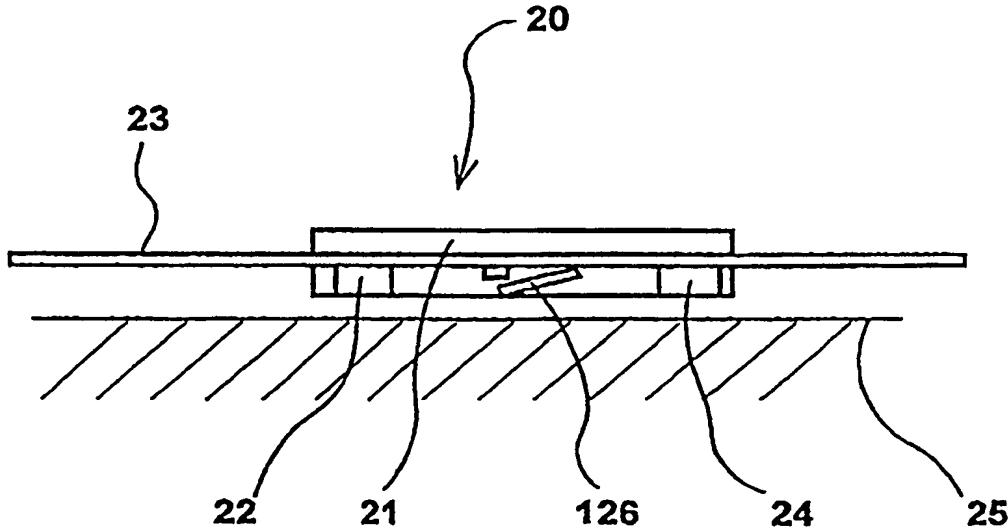


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(71) Applicant (for all designated States except US): S.P.O. MEDICAL EQUIPMENT LTD. [IL/IL]; P.O. Box 573, 79779 Neve Dekalim (IL). (72) Inventor; and (75) Inventor/Applicant (for US only): SARUSSI, Israel [IL/IL]; Moshav Ganei Tal, 79792 Mobile Mail Hof Aza (IL). (74) Agent: EITAN, PEARL, LATZER & COHEN-ZEDEK; Gav Yam Center 2, Shenkar Street 7, 46725 Herzlia (IL).		Published <i>With international search report.</i>	

(54) Title: A SENSOR FOR RADIANCE BASED DIAGNOSTICS



(57) Abstract

The present invention provides a sensor (20) for radiance based diagnostics of body tissue including a performing component (21) and an adhering component (23). The performing component includes at least one radiance source (22) for radiating a tissue, and at least one detector (24) for detecting rays emitted from the radiance source. The adhering component is capable of fastening the performing component to a tissue such that the radiance source, and detector are facing and contiguous with the tissue. When operative, the adhering component fastens the performing component to the tissue to the extent that the detector receives only rays which are transmitted through or reflected from the tissue. The sensor may include a controlling device which senses external conditions and which is capable of controlling the sensor in response to the sensed conditions. The sensor may also be in communication with an electronic circuit, which may control the radiance source, and/or detector, performing analysis of data received by the detector.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL99/00613

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :A61B 5/00

US CL :600/310

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 600/310, 322, 323, 340, 344

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,830,014 A (GOODMAN et al.) 16 May 1989, col. 4 line 59 to col. 5 line 2.	1-6, 10, 13-18, 20-23, 26-32
X	US 5,054,488 A (MUZ) 08 October 1991, col. 3 line 59 to col. 4 line 7.	1, 4, 13, 14, 22, 23, 27-32
X	US 5,427,093 A (OGAWA et al.) 27 June 1995, entire document.	1-4, 7, 10, 12-16, 19, 27-32

 Further documents are listed in the continuation of Box C. See patent family annex.

• Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

16 FEBRUARY 2000

Date of mailing of the international search report

07 MAR 2000

Name and mailing address of the ISA/US
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Authorized officer *Eric F. Winakur*
ERIC F. WINAKUR

Telephone No. (703) 308-3940

PENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

EITAN, PEARL, LATZER & COHEN-ZEDEK
 Gav Yam Center 2
 Shenkar Street 7
 46725 Herzlia
 ISRAËL

Date of mailing (day/month/year) 17 January 2000 (17.01.00)	
Applicant's or agent's file reference P-2040-PC	IMPORTANT NOTIFICATION
International application No. PCT/IL99/00613	International filing date (day/month/year) 15 November 1999 (15.11.99)

1. The following indications appeared on record concerning:				
<input checked="" type="checkbox"/> the applicant <input type="checkbox"/> the inventor <input type="checkbox"/> the agent <input type="checkbox"/> the common representative				
Name and Address S.P.O. MEDICAL EQUIPMENT LTD. P.O. Box 192 Neve Dekalim 79779 Mobile Mail Hof Aza Israel	State of Nationality		State of Residence	
	IL		IL	
	Telephone No.			
	Facsimile No.			
Teleprinter No.				

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:				
<input type="checkbox"/> the person <input type="checkbox"/> the name <input checked="" type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence				
Name and Address S.P.O. MEDICAL EQUIPMENT LTD. P.O. Box 573 Neve Dekalim 79779 Mobile Mail Hof Aza Israel	State of Nationality		State of Residence	
	IL		IL	
	Telephone No.			
	Facsimile No.			
Teleprinter No.				

3. Further observations, if necessary:				

4. A copy of this notification has been sent to:				
<input checked="" type="checkbox"/> the receiving Office <input checked="" type="checkbox"/> the International Searching Authority <input type="checkbox"/> the International Preliminary Examining Authority		<input type="checkbox"/> the designated Offices concerned <input type="checkbox"/> the elected Offices concerned <input type="checkbox"/> other:		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Maria Victoria CORTIELLO Telephone No.: (41-22) 338.83.38
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 NOTIFICATION OF ELECTION
 (PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
 United States Patent and Trademark
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 Box PCT
 Washington, D.C.20231
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in its capacity as elected Office

Date of mailing (day/month/year) 21 August 2000 (21.08.00)	
International application No. PCT/IL99/00613	Applicant's or agent's file reference P-2040-PC
International filing date (day/month/year) 15 November 1999 (15.11.99)	Priority date (day/month/year) 16 November 1998 (16.11.98)
Applicant SARUSSI, Israel	

1. The designated Office is hereby notified of its election made:

in the demand filed with the International Preliminary Examining Authority on:

13 June 2000 (13.06.00)

in a notice effecting later election filed with the International Bureau on:

2. The election
-
- was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Nestor Santesso Telephone No.: (41-22) 338.83.38
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PENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
AMENDMENTS OF THE CLAIMS(PCT Rule 62 and
Administrative Instructions, Section 417)Date of mailing (day/month/year)
21 August 2000 (21.08.00)To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C.20231
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in its capacity as International Preliminary Examining Authority

International application No.
PCT/IL99/00613International filing date (day/month/year)
15 November 1999 (15.11.99)

Applicant

S.P.O. MEDICAL EQUIPMENT LTD. et al

The International Bureau hereby informs the International Preliminary Examining Authority that no amendments under Article 19 have been received by the International Bureau (Administrative Instructions, Section 417).

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Nestor Santesso

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38